

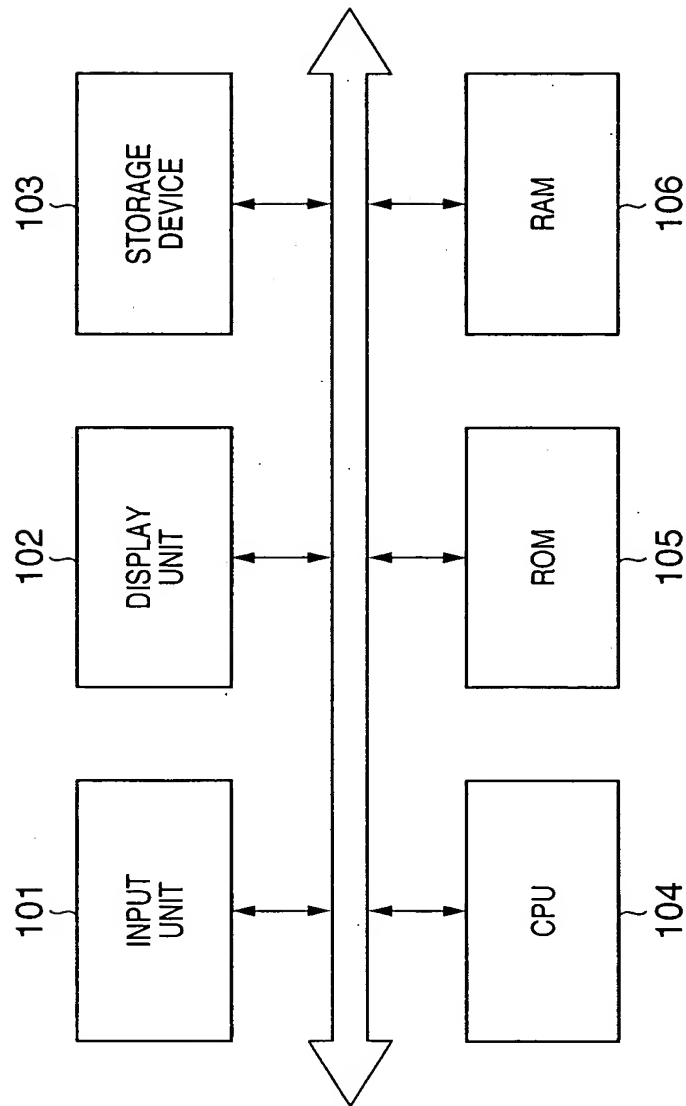
FIG. 1

FIG. 2

MEDIA NAME	COLOR SPACE	BIT PRECISION
PROFESSIONAL PHOTO PAPER	xRGB	16
GLOSSY PAPER	xRGB	16
...
POSTCARD	sRGB	8
PLAIN PAPER	sRGB	8

MEDIA INFORMATION DATABASE 201

FIG. 3

301

PRINT IMAGE	CONNECTED PRINTERS
	BJF900
	BJS700
	BJS200
	LE4210
	LO3333

303

PRINT PRINT SETTINGS

302

MEDIUM	PRINT MODE	PAPER SIZE
PHOTO PAPER	FINE	A4
SPECIAL-PURPOSE PAPER	ORDINARY	POSTCARD
PLAIN PAPER	QUICK	L
OHP		2L

OK

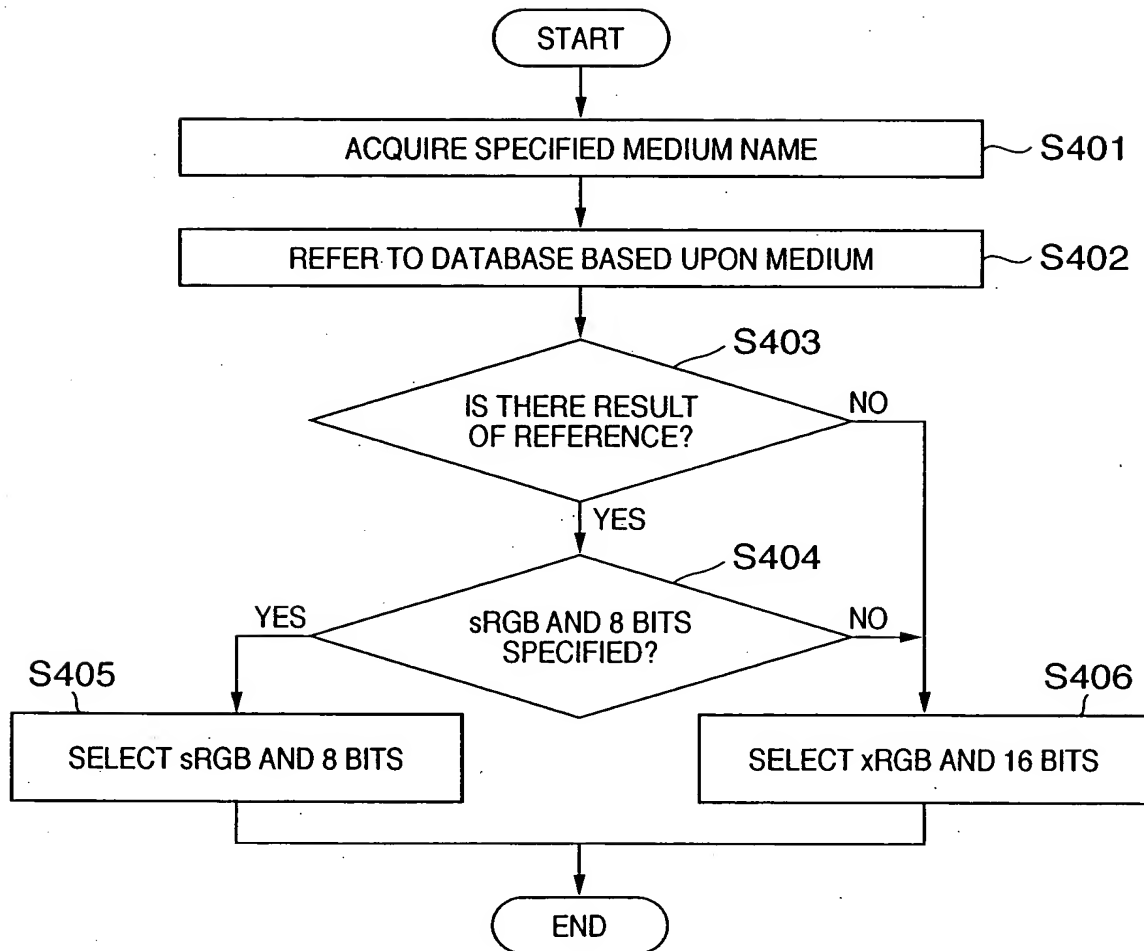
FIG. 4

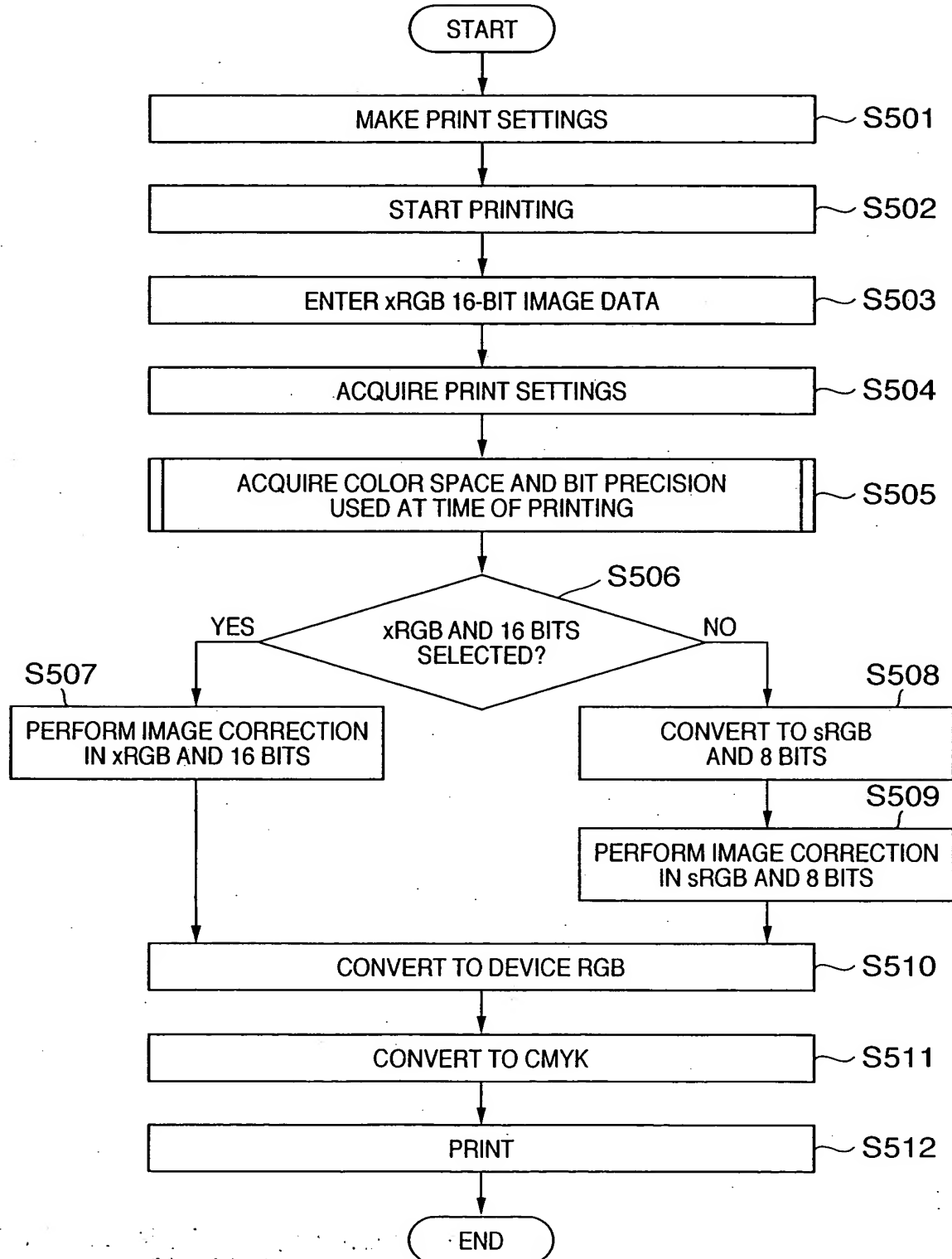
FIG. 5

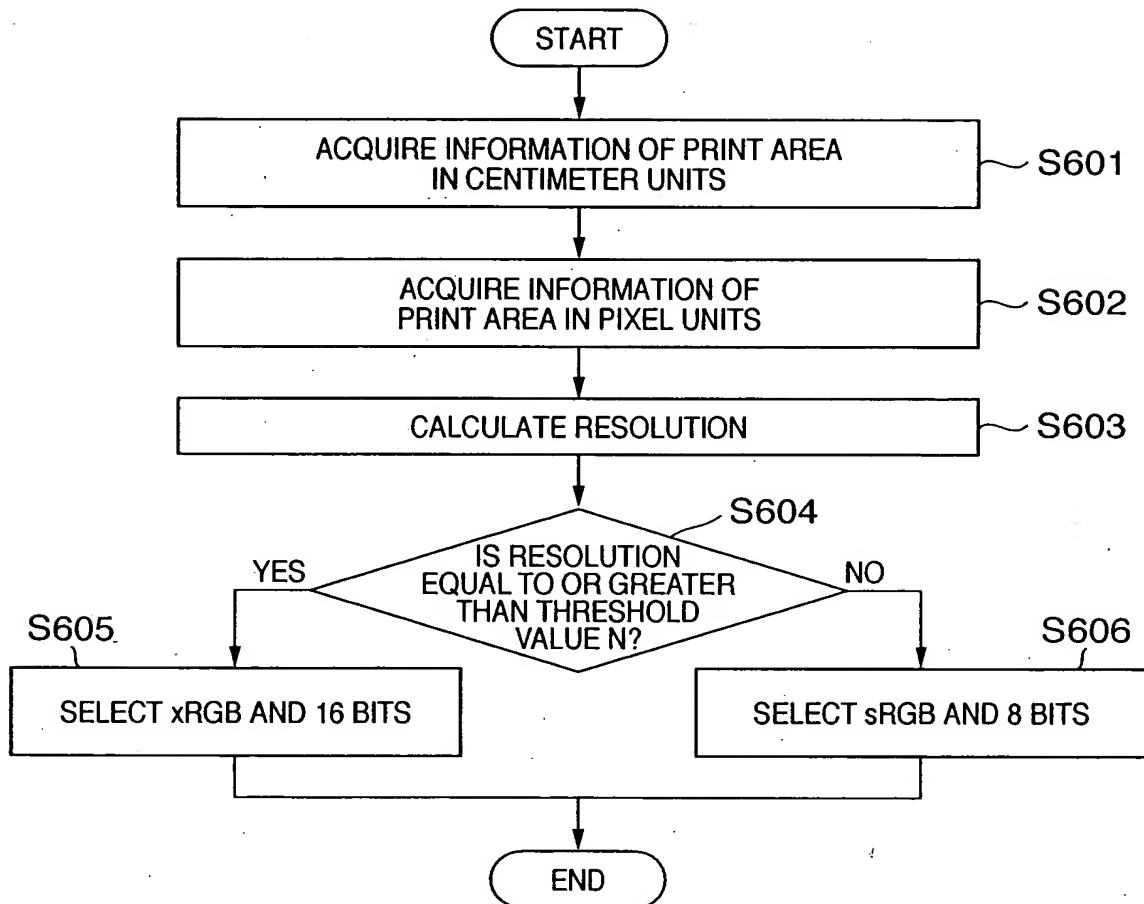
FIG. 6

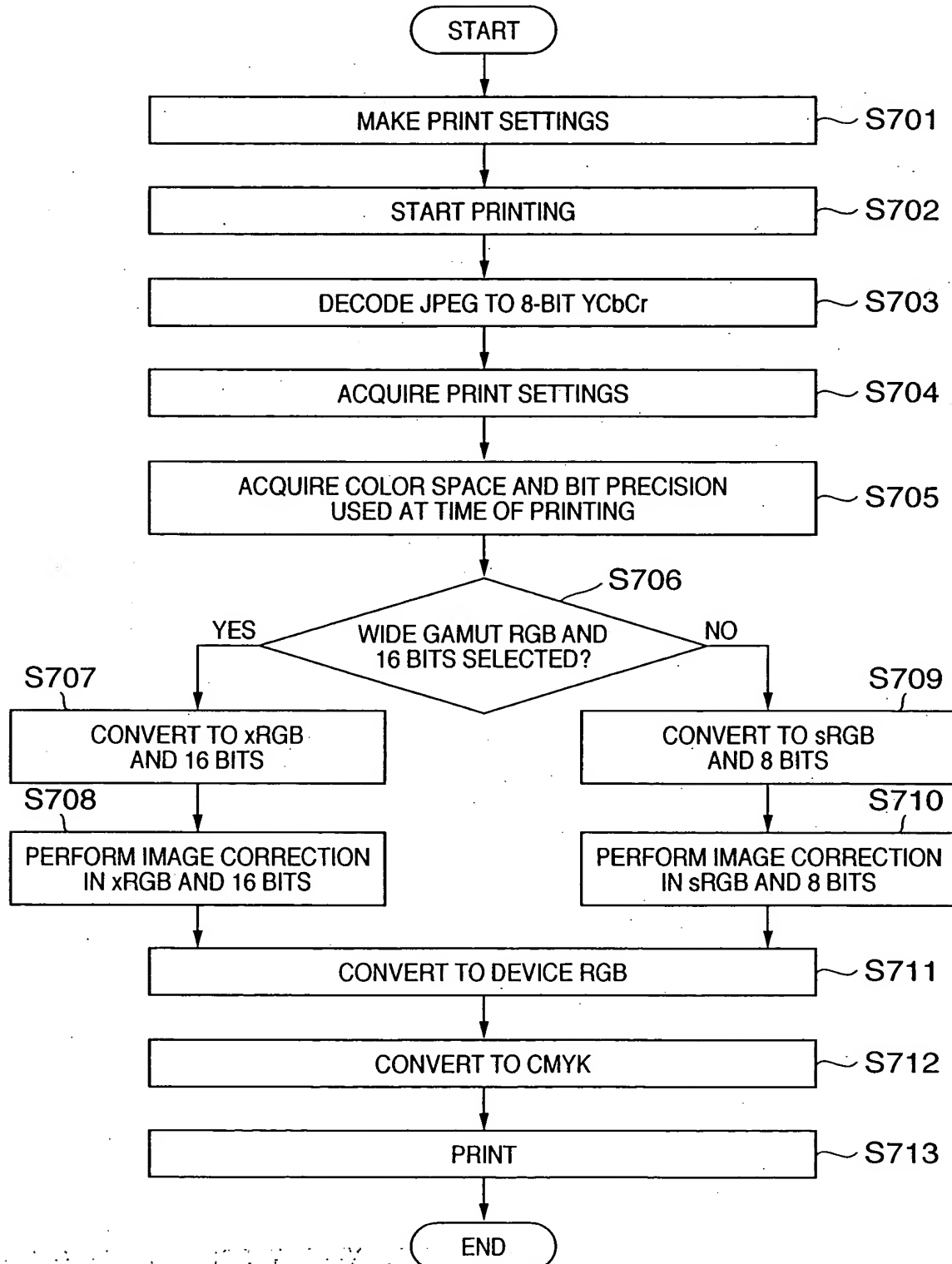
FIG. 7

FIG. 8

CONVERSION METHOD 801 FOR CONVERSION FROM YCbCr TO WideGamutRGB

$$\begin{pmatrix} Y/255 \\ (Cb-128)/255 \\ (Cr-128)/255 \end{pmatrix} \rightarrow \begin{pmatrix} XD65 \\ YD65 \\ ZD65 \end{pmatrix} \text{--- (1)} \quad \begin{pmatrix} XD65 \\ YD65 \\ ZD65 \end{pmatrix} \rightarrow \begin{pmatrix} XD50 \\ YD50 \\ ZD50 \end{pmatrix} \text{--- (2)}$$

$$\begin{bmatrix} RWGamutRGB \\ GWGamutRGB \\ BWGamutRGB \end{bmatrix} = \begin{bmatrix} 1.4623 & -0.1845 & -0.2734 \\ -0.5529 & 1.4480 & 0.0681 \\ 0.0346 & -0.0958 & 1.2877 \end{bmatrix} \begin{bmatrix} XD50 \\ YD50 \\ ZD50 \end{bmatrix} \text{--- (3)}$$

$$\begin{pmatrix} RWGamutRGB \\ GWGamutRGB \\ BWGamutRGB \end{pmatrix} \rightarrow \begin{pmatrix} R'WGamutRGB \\ G'WGamutRGB \\ B'WGamutRGB \end{pmatrix} \text{--- (4) (Linear-TO-NonLinear GAMMA CONVERSION)}$$

$$\begin{aligned} R(16) &= \text{round}(R'WGamutRGB \times 65535) \\ G(16) &= \text{round}(G'WGamutRGB \times 65535) \\ B(16) &= \text{round}(B'WGamutRGB \times 65535) \end{aligned} \text{--- (5)}$$

CONVERSION METHOD 802 FOR CONVERSION FROM YCbCr TO sRGB

$$\begin{pmatrix} R \\ G \\ B \end{pmatrix} = \begin{pmatrix} 1.000 & 0.000 & 1.402 \\ 1.000 & -0.3441 & -0.7141 \\ 1.000 & 1.772 & 0.000 \end{pmatrix} \begin{pmatrix} Y/255 \\ (Cb-128)/255 \\ (Cr-128)/255 \end{pmatrix} \text{--- (1)}$$

$$\begin{pmatrix} R \\ G \\ B \end{pmatrix} \rightarrow \begin{pmatrix} R' \\ G' \\ B' \end{pmatrix} \text{--- (2) (Linear-TO-NonLinear GAMMA CONVERSION)}$$

$$\begin{aligned} R(8) &= \text{round}(R'sRGB \times 65535) \\ G(8) &= \text{round}(G'sRGB \times 65535) \\ B(8) &= \text{round}(B'sRGB \times 65535) \end{aligned} \text{--- (5)}$$

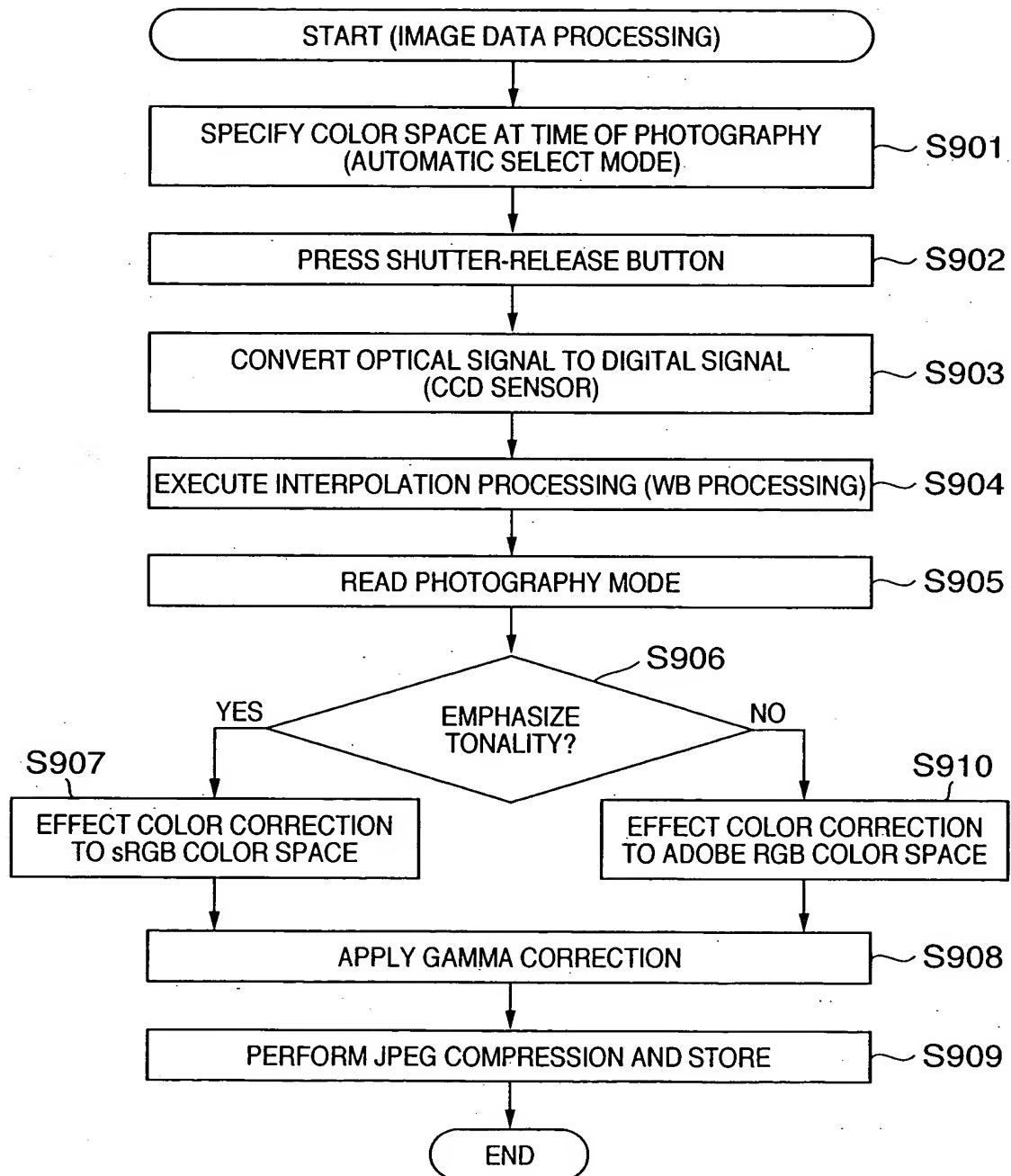
FIG. 9

FIG. 10

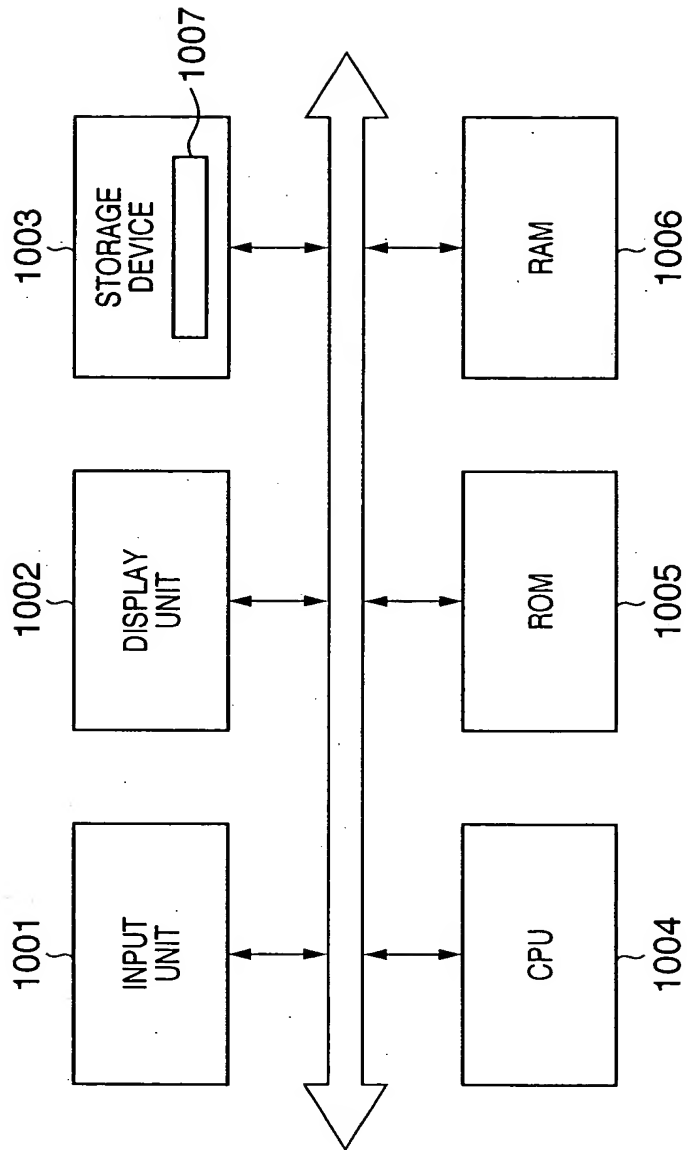


FIG. 11

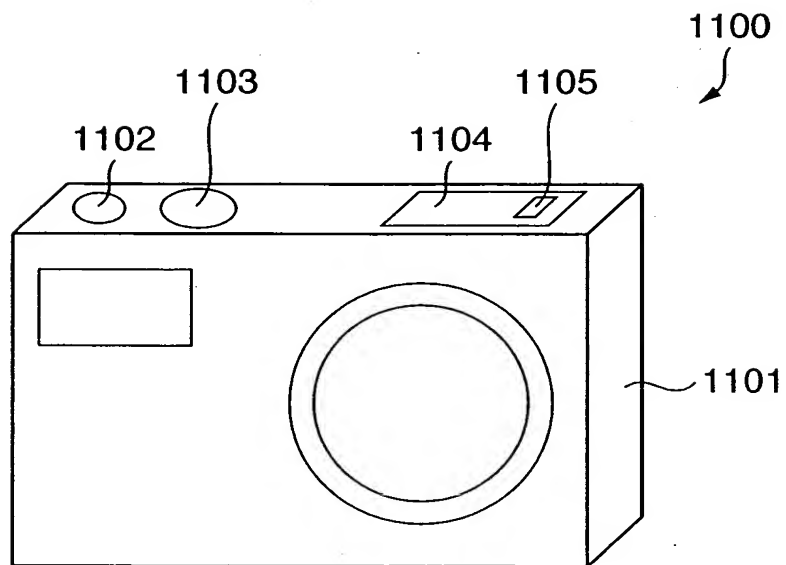


FIG. 12A

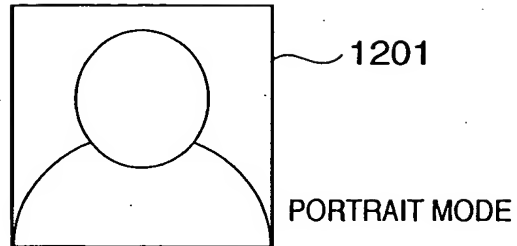


FIG. 12B

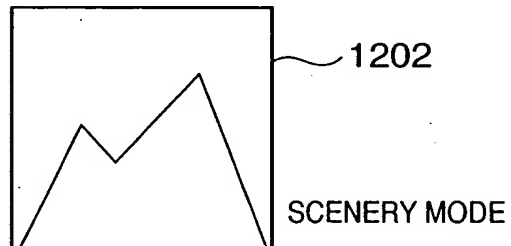


FIG. 12C

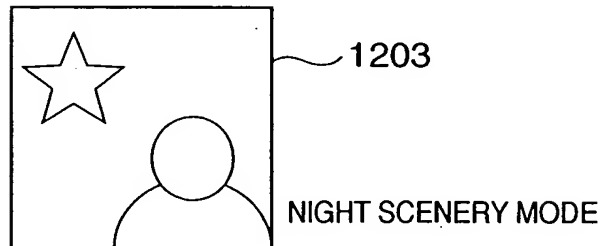


FIG. 12D

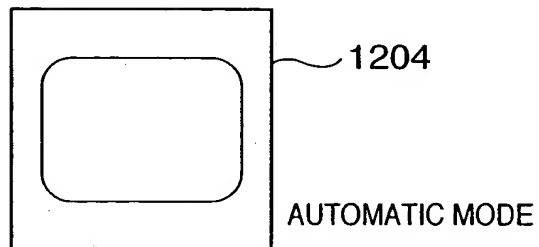


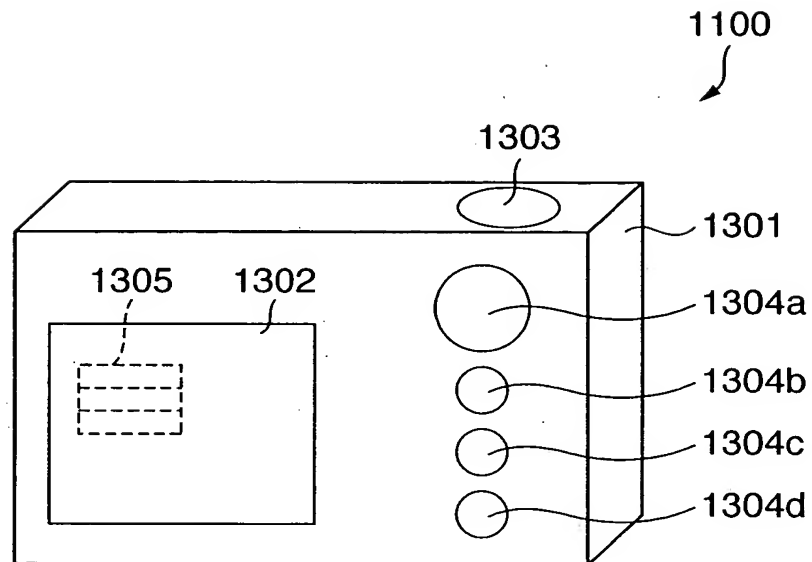
FIG. 13

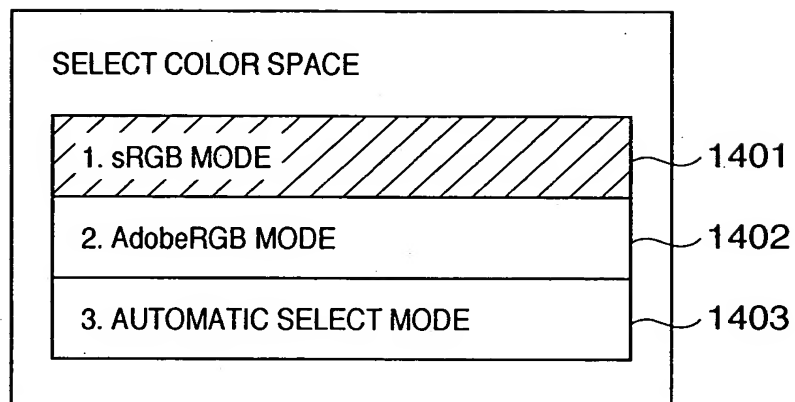
FIG. 14

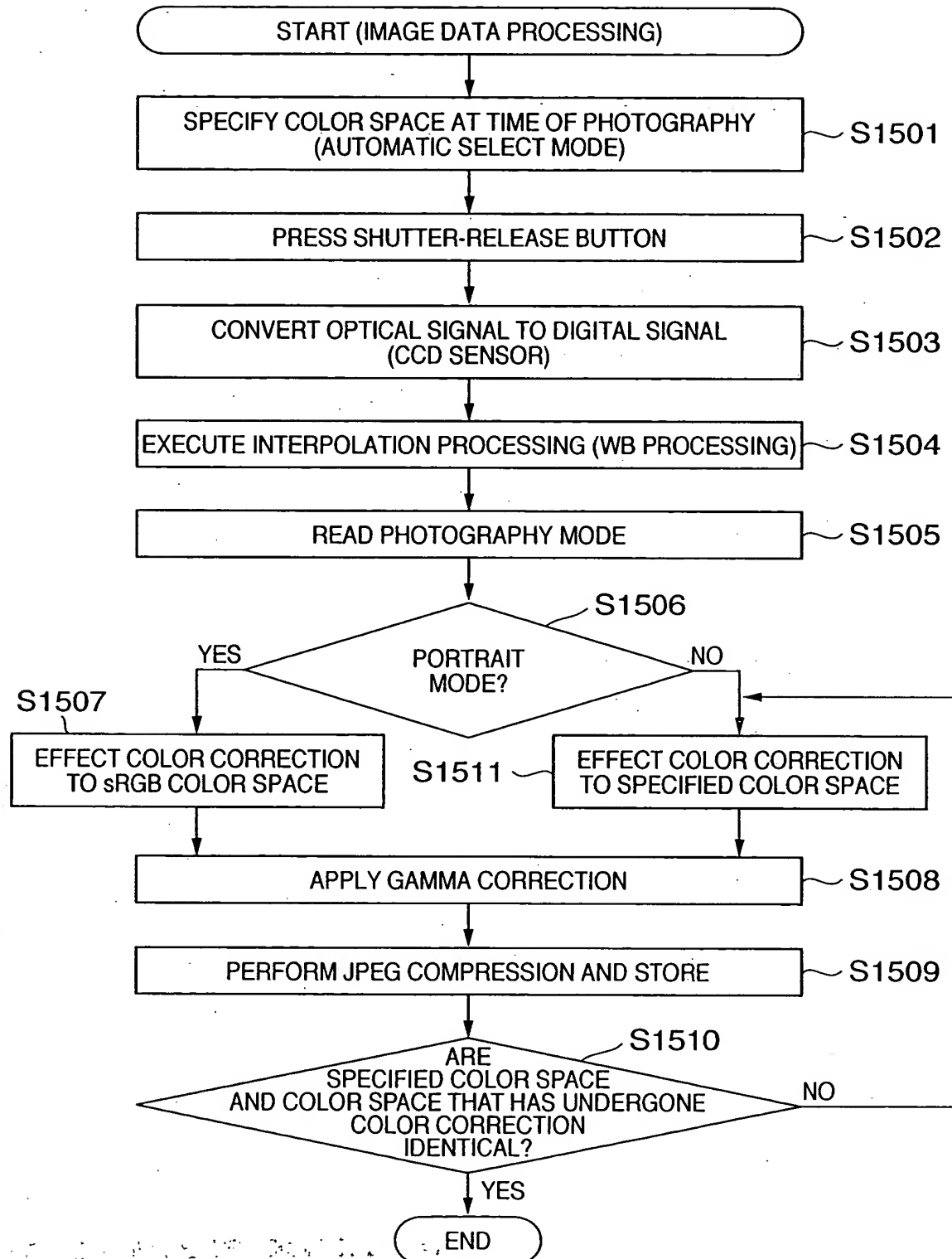
FIG. 15

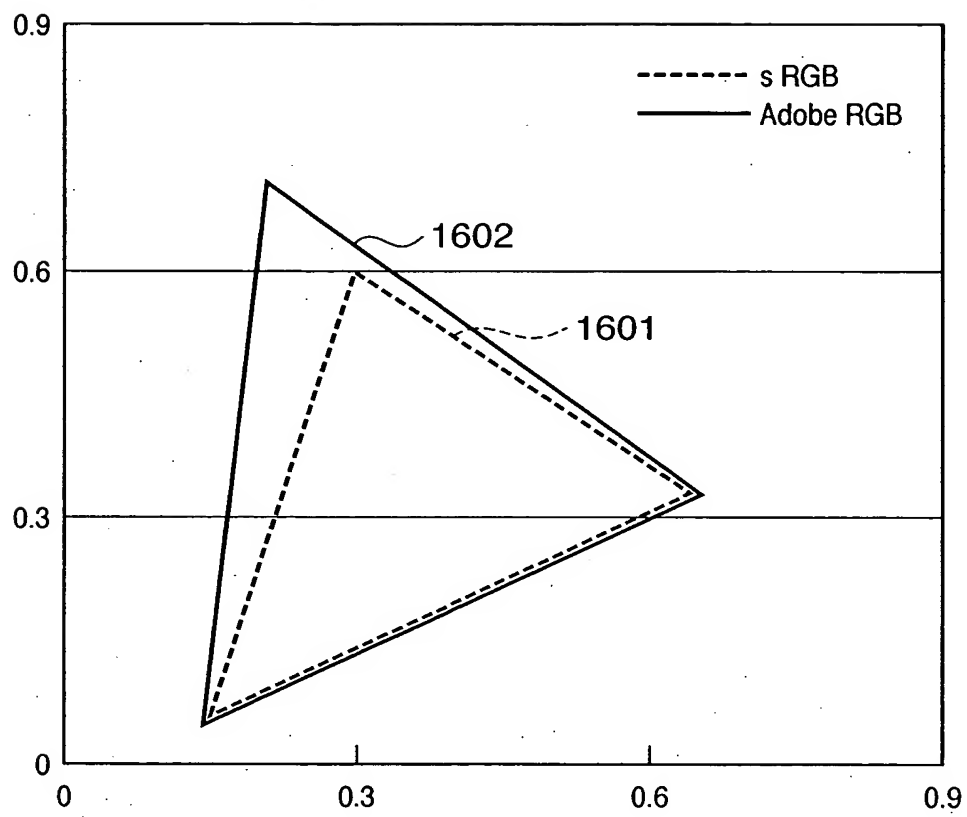
FIG. 16

FIG. 17